Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

 (currently amended) A method for monitoring a process, the method comprising:

creating a signature representative of the process;

continuously updating the created signature; and

detecting abnormalities based upon the continuously updated signature[[.]],

wherein the process is related to usage of networked computing devices in a datacenter, and

wherein the signature includes information related to time sensitive averaging that accounts for variation in a business cycle.

- (Original) The method of claim 1, wherein creating a signature comprises calculating an average and a standard deviation.
- (Original) The method of claim 2, wherein creating a signature comprises accelerated learning through incrementally increasing a learning responsiveness ratio.
- (Original) The method of claim 2, wherein creating a signature comprises initially repeating a running average and standard deviation through a plurality of intervals.

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5. (Original) The method of claim 1, wherein updating the created signature

comprises using a weighting factor to ensure that recently recorded data has a greater impact

than older data.

6. (Original) The method of claim 1, wherein updating the created signature

comprises utilizing a moving average over a time to account for events occurring at unexpected

times.

7. (Original) The method of claim 1, wherein detecting abnormalities

comprises determining if measured values are above an upper threshold or below a lower

threshold.

8. (Original) The method of claim 1, further comprising calculating upper

and lower threshold limits based on iitter offset.

9. (currently amended) A computer readablestorage medium having

computer executable instructions for performing the method of claim 1.

10. (currently amended) A method for detecting abnormalities occurring

during a process based upon a continuously updated signature representative of the process, the

method comprising:

continuously monitoring a system parameter;

computing a normal range of values for the system parameter based on the

continuously updated signature;

determining if the monitored system parameter is within the normal range;

and

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indicating existence of an abnormality if the monitored system parameter

is outside of the normal range[[.]],

wherein the process is related to usage of networked computing devices in

a datacenter.

11. (Original) The method of claim 10, further comprising creating a signature

by calculating an average and a standard deviation.

(Original) The method of claim 11, wherein creating a signature comprises

accelerated learning through incrementally increasing a learning responsiveness ratio.

13. (Original) The method of claim 11, wherein creating a signature comprises

initially repeating the running average and standard deviation through a plurality of intervals.

14. (Original) The method of claim 10, wherein computing a normal range of

values comprises using a weighting factor to ensure that recently recorded data has a greater

impact than older data.

15. (Original) The method of claim 10, wherein computing a normal range of

values comprises utilizing a moving average over a time to account for events occurring at

unexpected times.

16. (Original) The method of claim 10, wherein determining whether a

monitored system parameter is within a normal range of values comprises determining if

monitored system parameters are above an upper threshold or below a lower threshold.

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17. (Original) The method of claim 16, further comprising calculating upper

and lower threshold limits based on jitter offset.

18. (currently amended) A computer readable storage medium having

computer executable instructions for performing the method of claim 10.

(currently amended) A method for creating a signature useful for detecting

abnormalities in a computing system environment, the method comprising:

setting a learning responsiveness ratio;

monitoring a system parameter;

adjusting the learning responsiveness ratio at fixed intervals until a desired

value is reached;

calculating an average and standard deviation for each interval;

using the average, standard deviation and learning responsiveness ratio to

create the signature[[.]],

wherein the abnormalities in the computing system environment relate to

usage of networked computing devices in a datacenter, and

wherein the signature includes information related to time sensitive

averaging that accounts for variation in a business cycle.

20. (Original) The method of claim 19, further comprising continuously

updating the created signature.

21. (Original) The method of claim 20, further comprising detecting

abnormalities based on the updated signature.

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22. (Original) The method of claim 19, wherein creating a signature comprises

initially repeating the running average and standard deviation through a plurality of intervals.

23. (Original) The method of claim 20, wherein updating the created signature

comprises using a weighting factor to ensure that recently recorded data has a greater impact

than older data.

(Original) The method of claim 20, wherein updating the created signature

comprises utilizing a moving average over a time to account for events occurring at unexpected

times.

25. (Original) The method of claim 21, wherein detecting abnormalities

comprises determining if measured values are above an upper threshold or below a lower

threshold

26. (Original) The method of claim 21, further comprising calculating upper

and lower threshold limits based on jitter offset.

27. (currently amended) A computer readablestorage medium having

computer executable instructions for performing the method of claim 19.

28. (currently amended) A computerized system including computer storage

medium for detecting abnormal activity in a computerized environment, the system comprising:

monitoring tools for continuously monitoring a system parameter;

a continuously updated signature representative of normal values of the

system parameter; and

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an abnormality indicator calculated based on the continuously updated signature, the abnormality indicator including a range of normal values for the

system parameter[[.]],

wherein the abnormal activity is related to abnormal usage of networked

computing devices in a datacenter, and

wherein the signature includes information related to time sensitive

averaging that accounts for variation in a business cycle.

29. (Original) The system of claim 28, wherein the continuously updated

signature comprises an average and a standard deviation.

30. (Original) The system of claim 28, wherein the continuously updated

signature comprises a weighting factor to ensure that recently recorded data has a greater impact

than older data.

31. (Original) The system of claim 28, wherein the continuously updated

signature comprises a moving average over time to account for events occurring at unexpected

times.

32. (Original) The system of claim 28, wherein the abnormality indicator

determines whether a monitored system parameter is within a normal range of values and

whether monitored system parameters are above an upper threshold or below a lower threshold.

33. (Original) The method of claim 28, wherein the abnormality indicator

calculates upper and lower threshold limits based on jitter offset.

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34. (currently amended) A <u>computerized</u> monitoring system <u>including</u>

computer storage medium for monitoring a process, the monitoring system comprising:

a signature creation module for creating a signature representative of the process;

a signature updating module for continuously updating the created

signature; and

an abnormality detection module for detecting abnormalities based upon

deviations from the updated signature[[.]],

wherein the process is related to usage of networked computing devices in

a datacenter, and

wherein the signature includes information related to time sensitive

averaging that accounts for variation in a business cycle.

35. (Original) The system of claim 34, wherein the signature creation module

includes tools for calculating an average and a standard deviation.

36. (Original) The system of claim 35, wherein the signature creation module

comprises tools for performing accelerated learning through incrementally increasing a learning

responsiveness ratio.

37. (Original) The system of claim 35, wherein creating a signature comprises

initially repeating the running average and standard deviation through a plurality of intervals.

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38. (Original) The system of claim 34, wherein the signature updating module

comprises a weighting factor to ensure that recently recorded data has a greater impact than older

data.

39. (Original) The system of claim 34, wherein the signature updating module

comprises tools for calculating a moving average over a time to account for events occurring at

unexpected times.

40. (Original) The system of claim 34, wherein the abnormality detection

module determines if monitored system parameters are above an upper threshold or below a

lower threshold.

41. (Original) The method of claim 34, wherein the abnormality detection

module includes a mechanism for calculating upper and lower threshold limits based on jitter

offset.

42. (currently amended) A method for distinguishing between normal and

abnormal behavior during a process, the method comprising:

monitoring a system parameter;

converting a numeric data stream representative of the monitored system

parameter to a state for the process;

distinguishing between normal and abnormal behavior based on the

state[[.]],

wherein the process is related to usage of networked computing devices in

a datacenter,

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wherein the system parameter includes at least one of a usage variable, utilization, an error, and turn around time, and

wherein distinguishing between normal and abnormal behavior includes utilizing time sensitive averaging to account for variation in a business cycle.

- (Original) The method of claim 42, further comprising converting the numeric data streams to multiple sub-states.
- 44. (Original) The method of claim 42, further comprising determining a root cause of an abnormality based on the state.

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